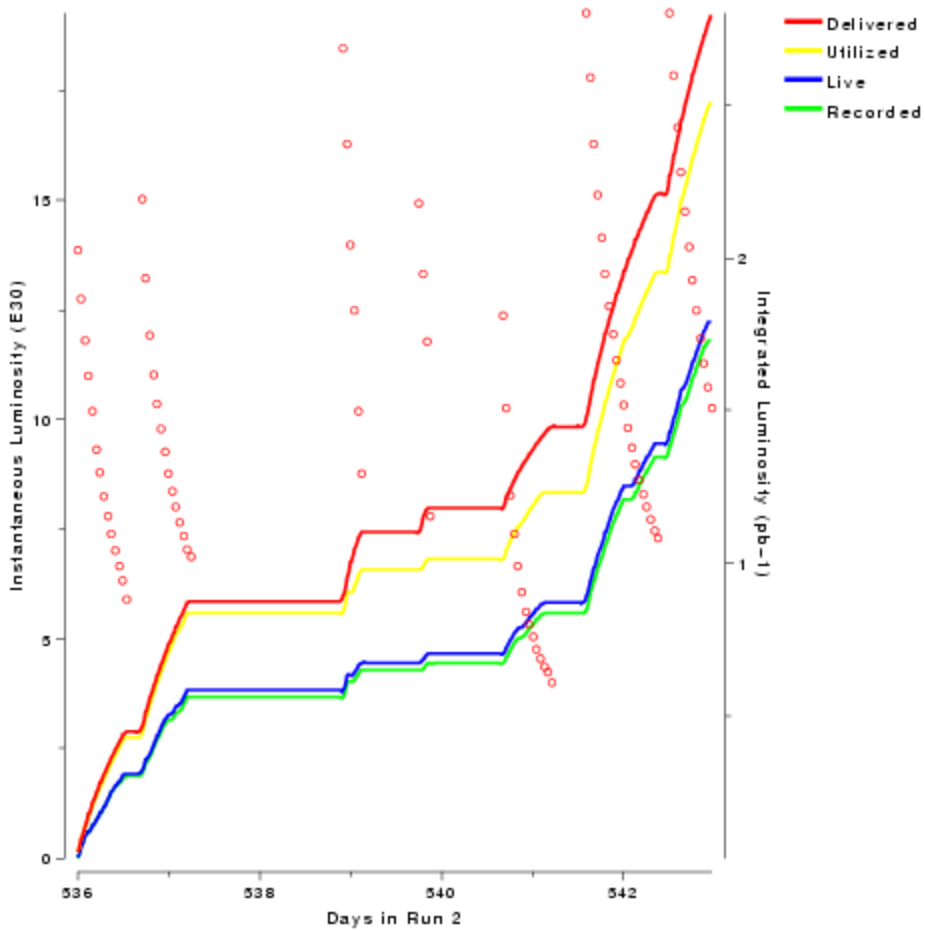
Week of August 19 to August 25 D0 Summary

- Delivered luminosity and operating efficiency
  - Delivered: 2.8pb^{-1}
  - Recorded: 1.8pb^{-1} (~65%)
- Data taking efficiency
  - front-end busy down to 1%
  - no major hardware/software problems
  - during weekend our "to tape" efficiency was stable at ~80%
  - different problems caused 1-2 hours downtimes
    - TCC memory overflow
    - L3 supervisor crash
    - L2 processor crash
    - special runs downloads
- Accelerator halo
  - reasonable except Thursday/Friday stores
- Beam position
  - stable within 0.3mm from the detector center



D0 Detectors Status

- Luminosity detector
  - Stable operation
  - Estimated error is 10%
- Silicon detector
  - Power supplies are running well
  - Noises stable: ~94% of channels are in operation
- Calorimeter
  - Stable
  - Calibration of Level 1 trigger energy scale
  - BLS boards modifications are needed for improvement of low energy jet triggers thresholds
- Muon
  - Stable operation
  - One PDT A layer chamber failed: ~8% of acceptance
- Forward proton detector
  - inserting pots during most stores

Data taking and triggering

- Running physics trigger list 8.2 since last Thursday
  - designed for higher luminosities
  - keep high pt triggers unprescaled at any luminosity
  - addition of new tools which became available recently
    - tracking at the Level 3 trigger
- Typical trigger/DAQ rates
  - L1 trigger 0.25kHz
  - L2 trigger 0.15kHz
  - L3 trigger (to tape) ~40 Hz
- Total number of events collected over last week
  - 6 mln
- Farms reconstruction speed is improved with new V11.11
  - processing about 4 mln events per week
- Summary report this week from Darien Wood, chair of the D0 Trigger Board

Wednesday Access

- Tuesday
  - power distribution modifications for extra Level 3 trigger nodes
- Wednesday
  - two major jobs
    - fix A layer muon PDT (detector partly open)
    - modifications of the calorimeter BLS boards (to stabilize output signals to the Level 1 trigger cards)
  - multiple minor jobs (spare LVPS, etc.)
  - plan to start at 6am and be ready for S&S by 5am Thursday

Summary

- D0 Collaboration is progressing with physics data taking
  - no major problems with detectors/electronics/triggers/DAQ
  - all detectors are in readout
  - trigger list 8.20 is running on-line
    - collected ~6 mln. events during last week
- Planning for Supervised Access and Wednesday and collisions on Thursday day shift